

## Electronic Acknowledgement Receipt

|   |                                    |
|---|------------------------------------|
| <b>EFS ID:</b>                              | 6683639                            |
| <b>Application Number:</b>                  | 09713524                           |
| <b>International Application Number:</b>    |                                    |
| <b>Confirmation Number:</b>                 | 3620                               |
| <b>Title of Invention:</b>                  | NOISE SUPPRESSOR                   |
| <b>First Named Inventor/Applicant Name:</b> | Ayad Beghdad                       |
| <b>Customer Number:</b>                     | 02512                              |
| <b>Filer:</b>                               | GEZA C ZIEGLER JR/Maureen Silveira |
| <b>Filer Authorized By:</b>                 | GEZA C ZIEGLER JR                  |
| <b>Attorney Docket Number:</b>              |                                    |
| <b>Receipt Date:</b>                        | 21-DEC-2009                        |
| <b>Filing Date:</b>                         | 15-NOV-2000                        |
| <b>Time Stamp:</b>                          | 20:14:50                           |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)        |

### Payment information:

|   |                 |
|---|-----------------|
| Submitted with Payment  | yes             |
| Payment Type  | Deposit Account |
| Payment was successfully received in RAM  | \$ 180          |
| RAM confirmation Number   | 5852            |
| Deposit Account   | 161350          |
| Authorized User   |                 |
| The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:<br>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)<br>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees) |                 |

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## File Listing:

| Document Number     | Document Description | File Name                                     | File Size(Bytes)/<br>Message Digest                   | Multi Part /.zip | Pages (if appl.) |
|---------------------|----------------------|---|---|------------------|------------------|
| 1                   | NPL Documents        | Robust_estimation_of_speech_in_noisy.pdf      | 1682864<br>330612da44c2a1d8f0182c7491e5e3e3a35d46a1   | no               | 38               |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 2                   | NPL Documents        | The_recursive_adaptive_LMS_filter.pdf         | 470685<br>9e94ab3ec924635e1999087b2b5693ec9f9868b0    | no               | 9                |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 3                   | NPL Documents        | Noise_reduction_based_on_spectral_change.pdf  | 409877<br>6c4993e771967912826ec499a0916a6c7d33f3ba9f  | no               | 4                |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 4                   | NPL Documents        | Speech_enhancement_based_on_audible_noise.pdf | 1324506<br>b2d61c8886a4805db19371772a19a4a358682b75   | no               | 18               |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 5                   | NPL Documents        | A_new_approach_to_noise_reduction.pdf         | 402570<br>28135a4113e2116dad57d53c813ab4b09ae013000   | no               | 5                |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 6                   | NPL Documents        | A_novel_psychoacoustically_motivated.pdf      | 329315<br>bd9d10575d41a08ae673f235288a15caae069d38    | no               | 4                |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 7                   | NPL Documents        | A_postfilter_for_echo_and_noise_reduction.pdf | 331428<br>40da4b4b8815c53993c0bdf3e7d8b088ec01e       | no               | 4                |
| <b>Warnings:</b>    |                      |   |   |                  |                  |
| <b>Information:</b> |                      |   |   |                  |                  |
| 8                   | NPL Documents        | Enhancement_of_audio_signals_by_combined.pdf  | 6124941<br>182cfa8a403f1d558210aac77dbd8054db095d50d0 | no               | 79               |
| <b>Warnings:</b>    |                      |   |   |                  |                  |

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|------------------------------|---|--------------------------------|---|-----|----|
| Information:                 |   |                                |   |     |    |
| 9                            | NPL Documents   | EP0918317_wEngAbstract_.pdf    | 3856645<br>208b67a5f55b1c5e435c7dad0974c62b2d36c    | no  | 21 |
| Warnings:                    |   |                                |   |     |    |
| Information:                 |   |                                |   |     |    |
| 10                           |   | OAResponseRR091221_009966_.pdf | 71334<br>41ce4844670c5e48425d470c9c5c5e28ff6968     | yes | 11 |
|                              | Multipart Description/PDF files in .zip description   |                                |   |     |    |
|                              | Document Description                                  |                                | Start   | End |    |
|                              | Amendment/Req. Reconsideration-After Non-Final Reject |                                | 1   | 1   |    |
|                              | Claims  |                                | 2   | 10  |    |
|                              | Applicant Arguments/Remarks Made in an Amendment      |                                | 11  | 11  |    |
| Warnings:                    |   |                                |   |     |    |
| Information:                 |   |                                |   |     |    |
| 11                           | Information Disclosure Statement (IDS) Filed (SB/08)  | IDS.pdf                        | 619682<br>a68a79076ea15c9d97c1e4cc8b5d67c22c36879a7 | no  | 4  |
| Warnings:                    |   |                                |   |     |    |
| Information:                 |   |                                |   |     |    |
| 12                           | Fee Worksheet (PTO-875)                               | fee-info.pdf                   | 30306<br>78004da3f388b46a762c5d41cfd0b66006685      | no  | 2  |
| Warnings:                    |   |                                |   |     |    |
| Information:                 |   |                                |   |     |    |
| Total Files Size (in bytes): |   |                                | 15654153  |     |    |

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.